WHAT IS CLAIMED IS:

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- 1. An optical module of an optical isolator comprising:
- a semiconductor laser for outputting a first linearly-polarized beam of a predetermined polarization mode;
- a polarizer positioned to face an end of the semiconductor laser, wherein a polarization axis of the polarizer is at a 45° angle with a polarization direction of the first beam; and
- a Faraday rotator between the semiconductor laser and the polarizer, wherein said rotator rotates the polarization direction of the first beam by 45° to substantially coincide with the polarization axis of the polarizer, , and rotates a second beam from the polarizer by 45°, wherein the second beam has a polarization mode polarized perpendicular to the first beam.
- 2. The optical module as set forth in claim 1, wherein the Faraday rotator provides the rotated first beam to the polarizer.
- 3. The optical module as set forth in claim 1, wherein the Faraday rotator provides the rotated second beam to the semiconductor laser.
 - 4. The optical module as set forth in claim 1, further comprising a lens between the semiconductor laser and the Faraday rotator.

- 5. The optical module as set forth in claim 1, further comprising an optical element facing an outer surface of the polarizer.
- 6. The optical module as set forth in claim 5, wherein the optical element facing is a lens.

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- 7. The optical module as set forth in claim 1, wherein the polarization mode of the first beam is a TE mode.
- 8. The optical module as set forth in claim 3, wherein the polarization mode of the second beam received by the semiconductor laser after passing through the Faraday rotator is a TM mode.
- 9. The optical module as set forth in claim 1, wherein the second beam received by the semiconductor laser after passing through the Faraday rotator has a polarization mode polarized perpendicular to the first beam.

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10. An optical module of an optical isolator comprising:

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- a semiconductor laser for outputting a first linearly-polarized beam of TM mode;
- a polarizer disposed to face an end of the semiconductor laser, wherein a polarization axis of the polarizer is tilted at 45° angle to a polarization direction of the first beam; and
- a Faraday rotator between the semiconductor laser and the polarizer, wherein the rotator (1) rotates the polarization direction of the first beam by 45° to substantially coincide with the polarization axis of the polarizer, (2) outputs the rotated first beam to the polarizer, (3) rotates a second beam from the polarizer by 45°, wherein the rotated second beam has a polarization mode polarized perpendicular to the first beam, and (4) outputs the rotated second beam to the semiconductor laser.
- 11. The optical module as set forth in claim 7, wherein the second beam from the Faraday rotator to the semiconductor laser is a beam of a TE polarization mode linearly polarized perpendicular to the first beam.